

## The Trichord Traffic Viewer™: A Traffic Management System on Your Desktop

The Trichord Traffic Viewer™ displays real-time traffic speed data for select highways across Northern Virginia. Users can track and update incident information using the traffic viewer's Incident Management Information System, and can display and track point-to-point travel times along highways in the area of coverage. The Trichord Traffic Viewer™ is designed for media outlets, companies operating vehicle fleets, and public sector agencies – it can be used as a “wireless traffic management system on a desktop” when deployed on a laptop with a wireless internet connection.



The Trichord Traffic Viewer™ provides the following benefits:

- Real-time traffic data, updated every minute
- Precise speed data and point-to-point travel times
- "At-a-glance" access to regional traffic speeds
- Customizable speed alerts that call attention to significant changes in traffic conditions.
- Comparison of current travel times to historical 30-day average.
- Password-protected access facilitates cooperative traffic management - groups of users can share information among themselves
- Quantitative traffic data, available during periods of inclement weather - when many cameras cannot see what is happening
- Quantitative traffic data, available during periods of heightened security - when flight restrictions prevent aircraft from flying over some locations

### Features:

#### The Real-time Congestion Map

The centerpiece of the software's user-friendly interface is a vector-based Real-time Congestion Map, whose road segments are color-coded according to current reported traffic speeds. When the user holds their mouse over a road segment, a “speed bubble” pops up, showing the current reported speed. The speed data displayed on the map is updated once each minute, and if a road segment changes color due to the update, the segment will



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flash to call attention to it. The current time and the time of the last update are displayed above the map. Through data filters, the user can control what information is displayed on the map – including secondary roads, exits, map text, and incident icons.

#### **The Incident Information Management Toolbox**

The Incident Information Management Toolbox allows the user to track incidents that affect traffic flow. The user can place an icon on the map at an incident's location and then enter information - such as what is happening at the scene, who is responding, whether lanes are closed, etc. When the incident is cleared, and the user marks it for deletion, the incident's icon will gradually fade away, representing the residual effects on traffic flow.

#### **The Travel Time Information System**

The Trichord Traffic Viewer™ allows the user to calculate point-to-point travel times along monitored roadways. Once the user has customized their route, the travel time will be updated each minute. In addition to the current travel time along the route, the Trichord Traffic Viewer™ will display the difference between the current time and the historical, 30-day average travel time. If an HOV travel time is available, this will also be displayed.

#### **The Speed Alert Function**

Trichord Traffic Viewer™ users can set a low-speed threshold along a road segment, and receive a visual alert when the reported speed along that segment falls below the threshold.

#### **A Tool for Fleet Operators:**

Fleet operators who use centralized dispatching can use the Trichord Traffic Viewer™ to more efficiently route their vehicles around congestion and traffic incidents. The Travel Time Information System allows fleet operators to give more precise arrival time estimates to their customers.

#### **A Tool for Emergency Responders:**

The Trichord Traffic Viewer™ is a compact software application that, when loaded onto a laptop with a wireless internet connection, becomes a "Wireless Traffic Management System on a Desktop" that can be used practically anywhere - allowing anyone who needs a comprehensive picture of current traffic conditions to get exactly that, no matter where they happen to be.

#### **Coverage Area:**

The Northern Virginia edition of the Trichord Traffic Viewer™ displays traffic data from the following roadways: I-66, I-95, I-395, and I-495. On I-66, coverage is available between Haymarket and the Capital Beltway (I-495). On I-95, coverage is available between Triangle / Quantico (Exit 150) and the Woodrow Wilson Bridge (crossing the Potomac River between Virginia and Maryland). On I-395, coverage is available between I-495 and the District of Columbia border. On I-495, coverage is available between Braddock Road and the Woodrow Wilson Bridge. As our sensor network expands, our coverage area will continue to increase.

#### **Pricing:**

Access to the Trichord Traffic Viewer™ is available by subscription; the subscription fee is \$2,000 per month, per seat license.



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